WHAT IS CLAIMED IS:

- 1. A high frequency semiconductor device comprising:
- a semiconductor substrate;
- a ground plate connected to the ground potential;
- at least one insulating interlayer;
- a line conductor provided above said ground plate, with said at least one insulating interlayer provided therebetween;
- at least one terminal for connecting to the exterior;
- a shield plate provided above the highest layer of the line conductor, with said at least one insulating interlayer provided therebetween, said shield plate being connected to the ground potential.
- A high frequency semiconductor device according to Claim 1, wherein said at least one terminal is a wirebonding pad.
- 3. A high frequency semiconductor device according to Claim 2, wherein said shield plate has an opening in an area in which the said wire-bonding pad is positioned.
 - 4. A high frequency semiconductor device according to

Claim 2, wherein said wire-bonding pad is provided on said shield plate.

- 5. A high frequency semiconductor device according to Claim 1, wherein said shield plate substantially covers the entirety of said semiconductor substrate.
- A high frequency semiconductor device according to Claim 1, further comprising:
- a plurality of throughholes formed in the periphery of said shield plate so as to surround an inner area excluding the periphery, the throughholes reaching said ground plate; and

internal conductors provided in the throughholes, said internal conductors connecting said shield plate and said ground plate.

- 7. A high frequency semiconductor device according to Claim 1, wherein said at least one terminal leads from the back of said semiconductor substrate.
- 8. A high frequency semiconductor device according to Claim 1, wherein said at least one terminal is connected to the surface of said semiconductor substrate by a viahole penetrating said semiconductor substrate.

- A high frequency semiconductor device according to Claim 7, wherein said at least one terminal is a flip chip pad.
- 10. A high frequency semiconductor device according to Claim 1, wherein:

said semiconductor substrate is divided into an element-arranged area in which semiconductor elements are formed and an outer area around said element-arranged area in which at least one terminal is provided; and

said shield plate selectively covers said elementarranged area.

- 11. A high frequency semiconductor device according to Claim 10, wherein further comprising:
- a plurality of throughholes formed in the periphery of said shield plate so as to surround an inner area excluding the periphery, the throughholes reaching said ground plate; and

internal conductors provided in the throughholes, said internal conductors connecting said shield plate and said ground plate;

wherein said at least one terminal and said elementarranged area are made in conduction by an area in which the throughholes are not provided.

- 12. A high frequency semiconductor device according to Claim 1, wherein said terminal is an antenna.
- 13. A high frequency semiconductor device according to Claim 12, wherein said shield plate has an opening in a portion corresponding to said antenna.
- 14. A high frequency semiconductor device according to Claim 12, wherein a terminal for electrically connecting to the exterior is further provided on the back of said semiconductor substrate.
- 15. A high frequency semiconductor device according to Claim 14, wherein said terminal is connected to the surface of said semiconductor substrate by a viahole penetrating said semiconductor substrate.
- 16. A high frequency semiconductor device according to Claim 14, wherein said terminal is a flip chip bonding.
- 17. A high frequency semiconductor device according to Claim 12, wherein said ground plate is used as an antenna grand plane in said antenna.

- 18. A high frequency semiconductor device according to Claim 12, wherein said antenna is provided on said shield plate, and said shield plate is used as an antenna grand plane.
- 19. A high frequency semiconductor device according to Claim 12, wherein said antenna is a patch antenna.
- 20. A high frequency semiconductor device according to Claim 1, wherein said at least one insulating interlayer is made of one of polyimide and benzocyclobutene.